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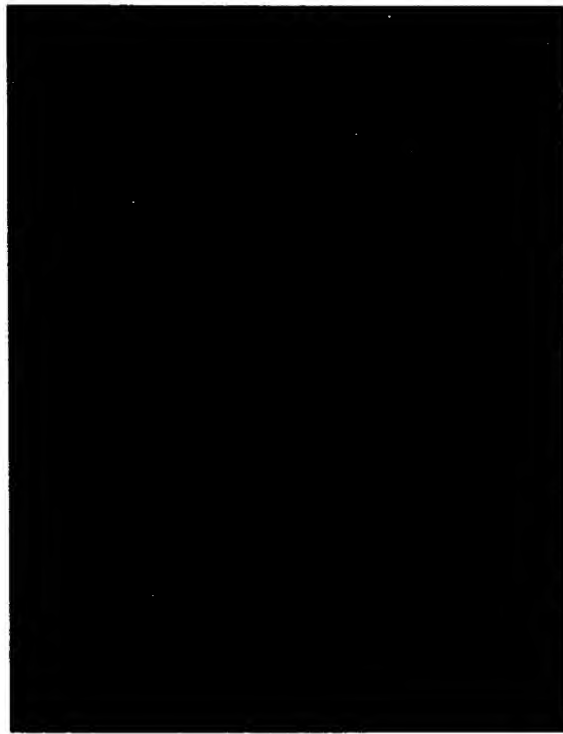
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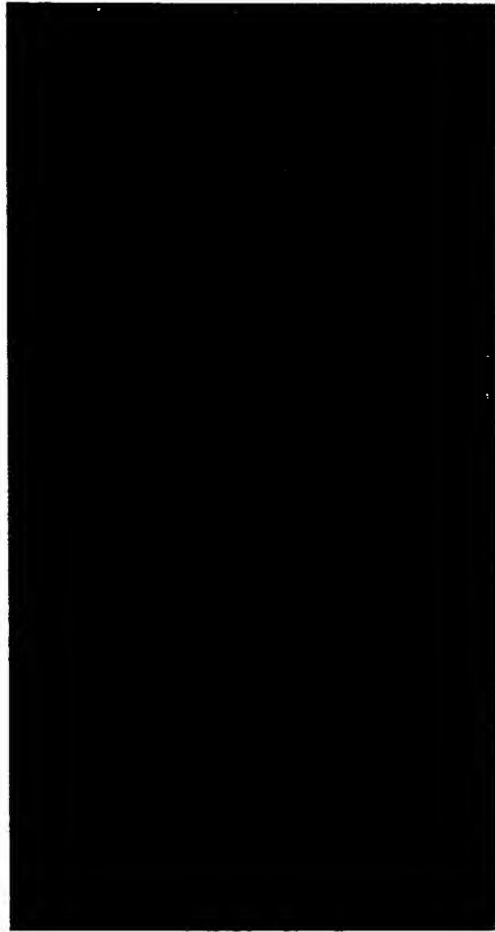
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GFP-LCA (wt)

FIG. 1



GFP-TLCA

FIG. 2

1 PFVNKQENYK DPVNGVDIAY IKIPNVGQMQ PVKAFKIHNK IWVIPERDTF
 51 TNPEEGDLNP PPEAQVPVS YDSTYLSTD NEKDNYLKGV TKLFERIYST
 101 DLGRMLLSTSI VRGIPFWGGS TIDTELKVID TNCINVIQPD GSYRSEELNL
 151 VIIGPSADII QFECKSFGHE VLNTRNGYG STQYIRFSPD FTFGFEESLE
 201 VDTNPLLGAG KFATDPAVTL AHELIHAGHR LYGIAINPNR VEKVNTNAY
 251 EMSGLEVSFE ELRTFGHDA KFIDSLQENE FRLYYNKEK DIASTLNKAK
 301 SIVGTTASLQ YMKNVFEKY LLSEDTSGKF SVDKLKFDKL YKMLTEIYTE
 351 DNFVKFFKVL NRKTYLNEDK AVEKINIVPK VNYTIYDGEN LRNTNLAANF
 401 NGQNTEINNM NFTKLKNETG LFEFYKLLCV RGIITSK

FIG. 3

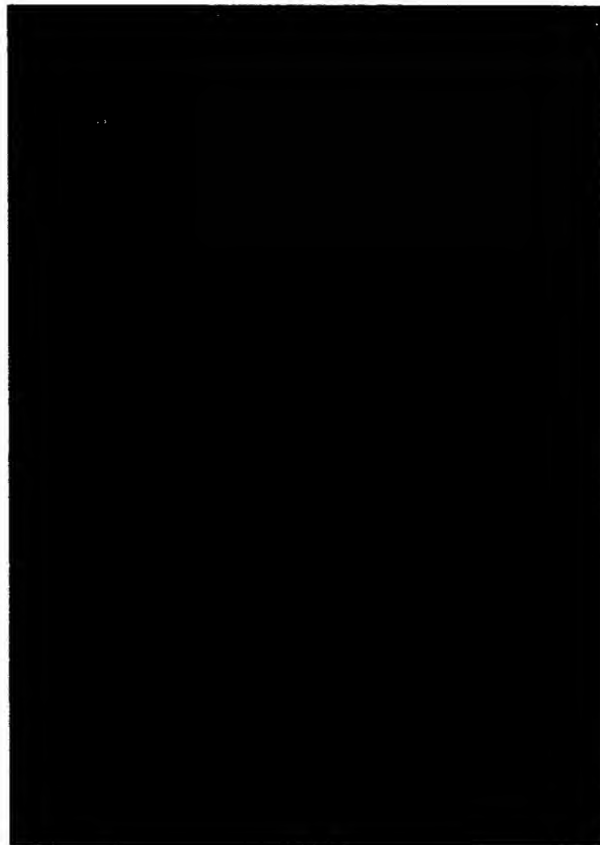


FIG. 4

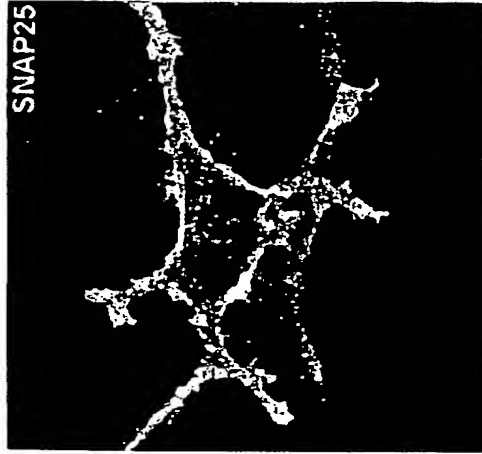
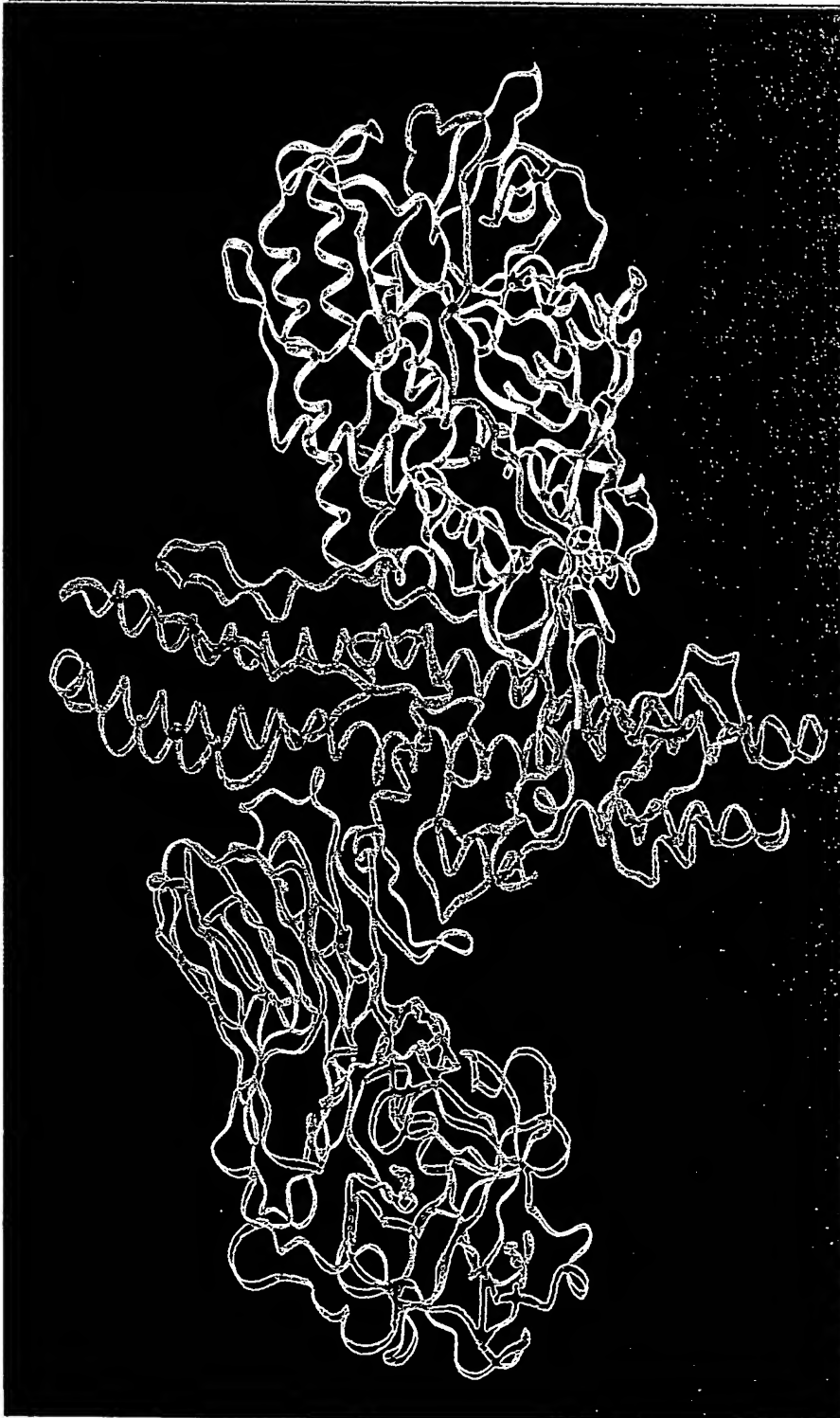


FIG. 5

Botulinum Toxin

Type A X-Ray Structure

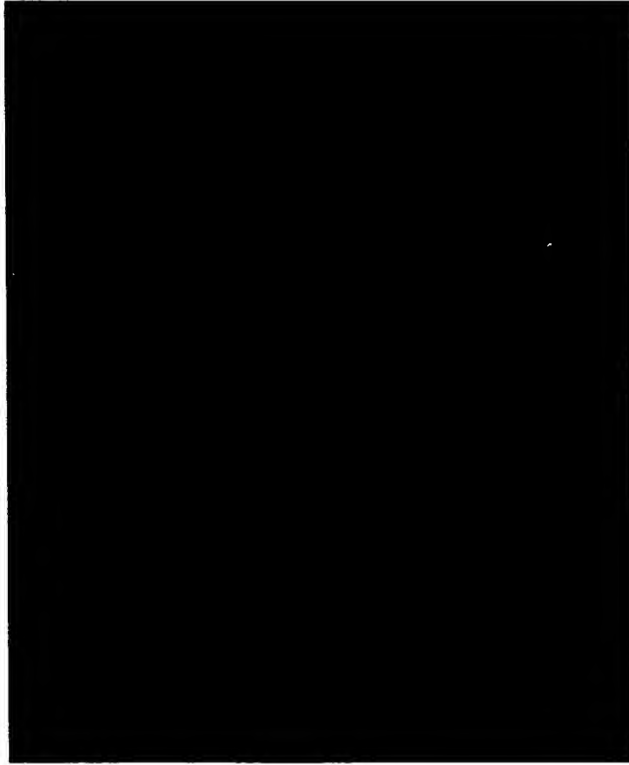


Yellow = protease domain

Green = binding domain

Red = translocational domain

FIG. 6



GFP-LCB (wt)

FIG. 7

FIG. 8

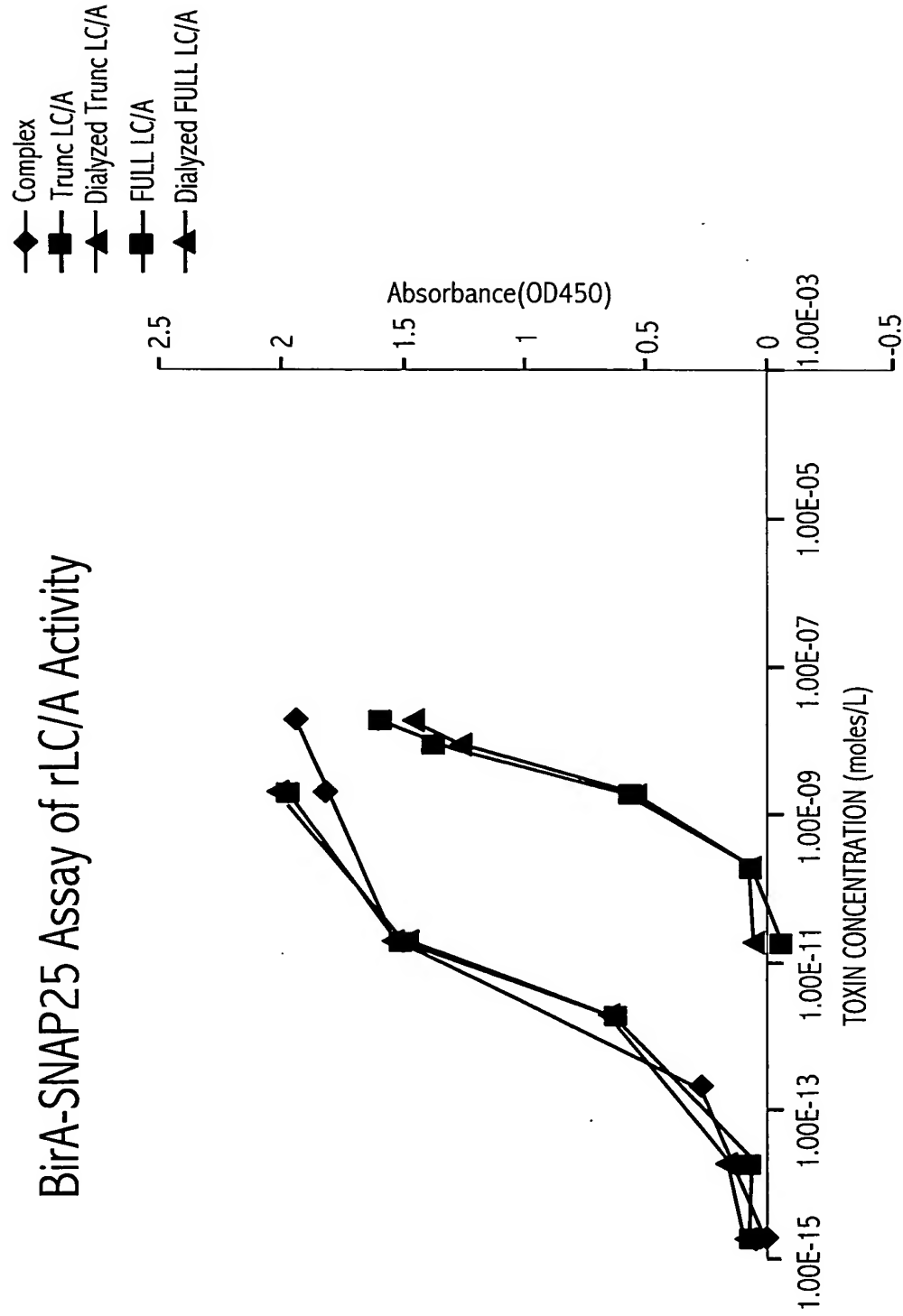


FIG. 9

Comparison of LC/A constructs expressed from E. coli for in vitro analysis

	6xHis	S-tag	
Wildtype LC/A			
trun LC/A	MHHHHHSSGLVPRGSGMKETA	AKFERQHMDSPDLGTDDDDKAMYKDPV...
N-His LC/A	MHHHHHSSGLVPRGSGMKETA	AKFERQHMDSPDLGTDDDDKAMGS	FVNKQFNYKDPV...
Wildtype LC/A	...NFTKL	NFTGL	FEFYKLLCVRGIITSK
trun LC/A	...NFTKLTRAHHHHH	
N-His LC/A	...NFTKL	NFTGL	FEFYKLLCVRGIITSK
		6xHis	

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Truncated LC construct published

- Kadkhodayan, S. et al. Prot. Exp. Purif. 2000, 19, 125-130
- Crystal structure reported at IBRCC in Oct. 2000

FIG. 10

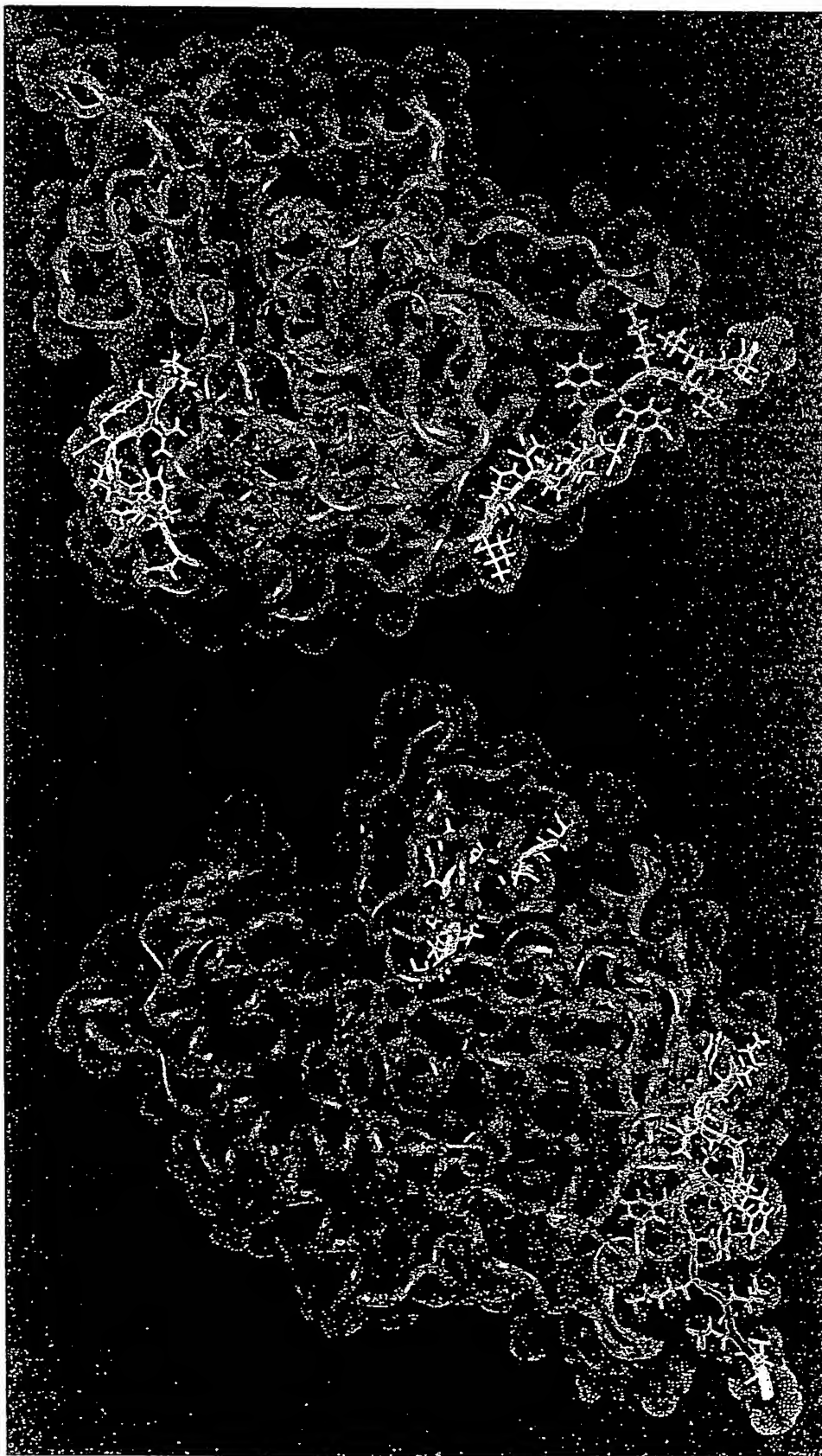


FIG. 11

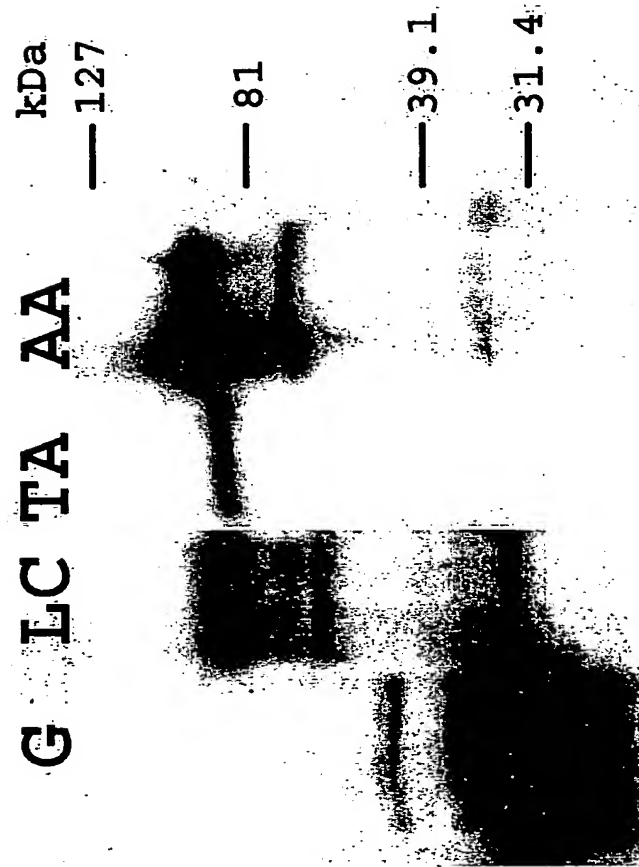


FIG. 12

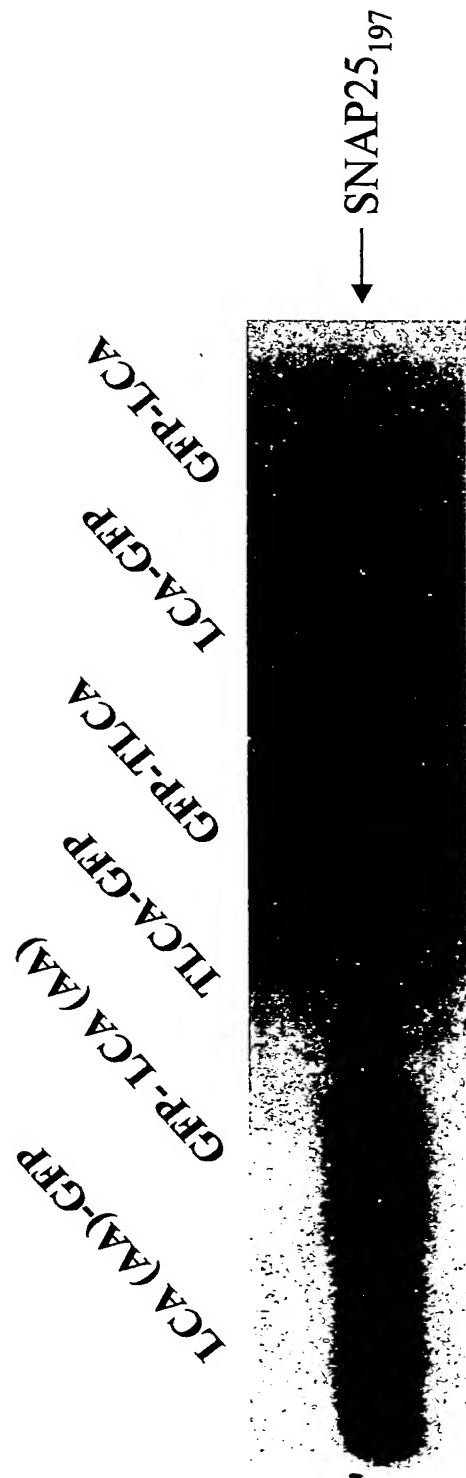
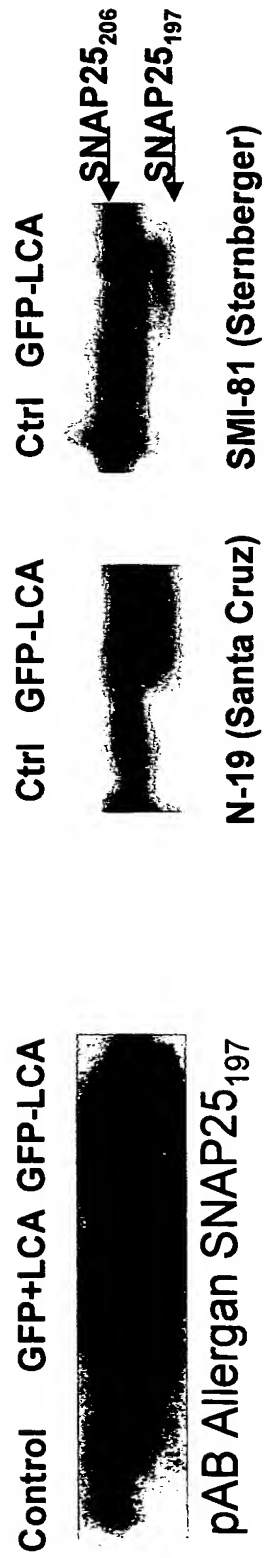


FIG. 13

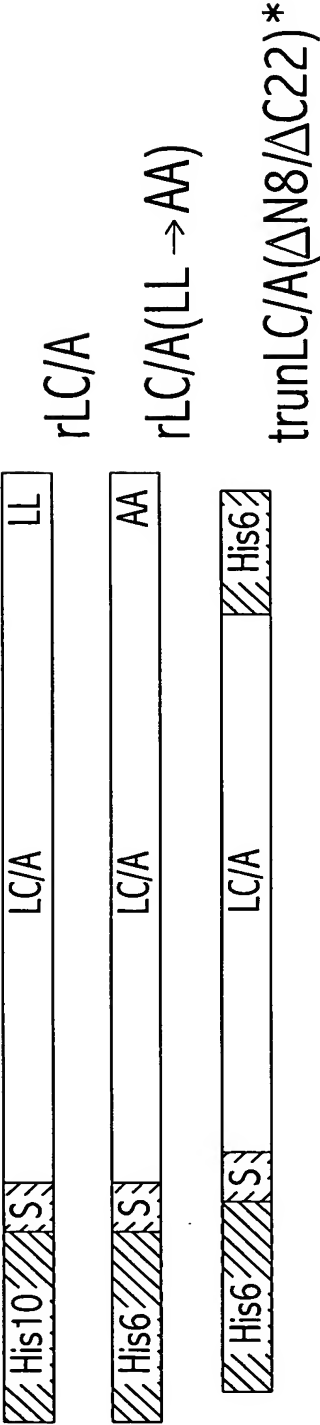


FIG. 14

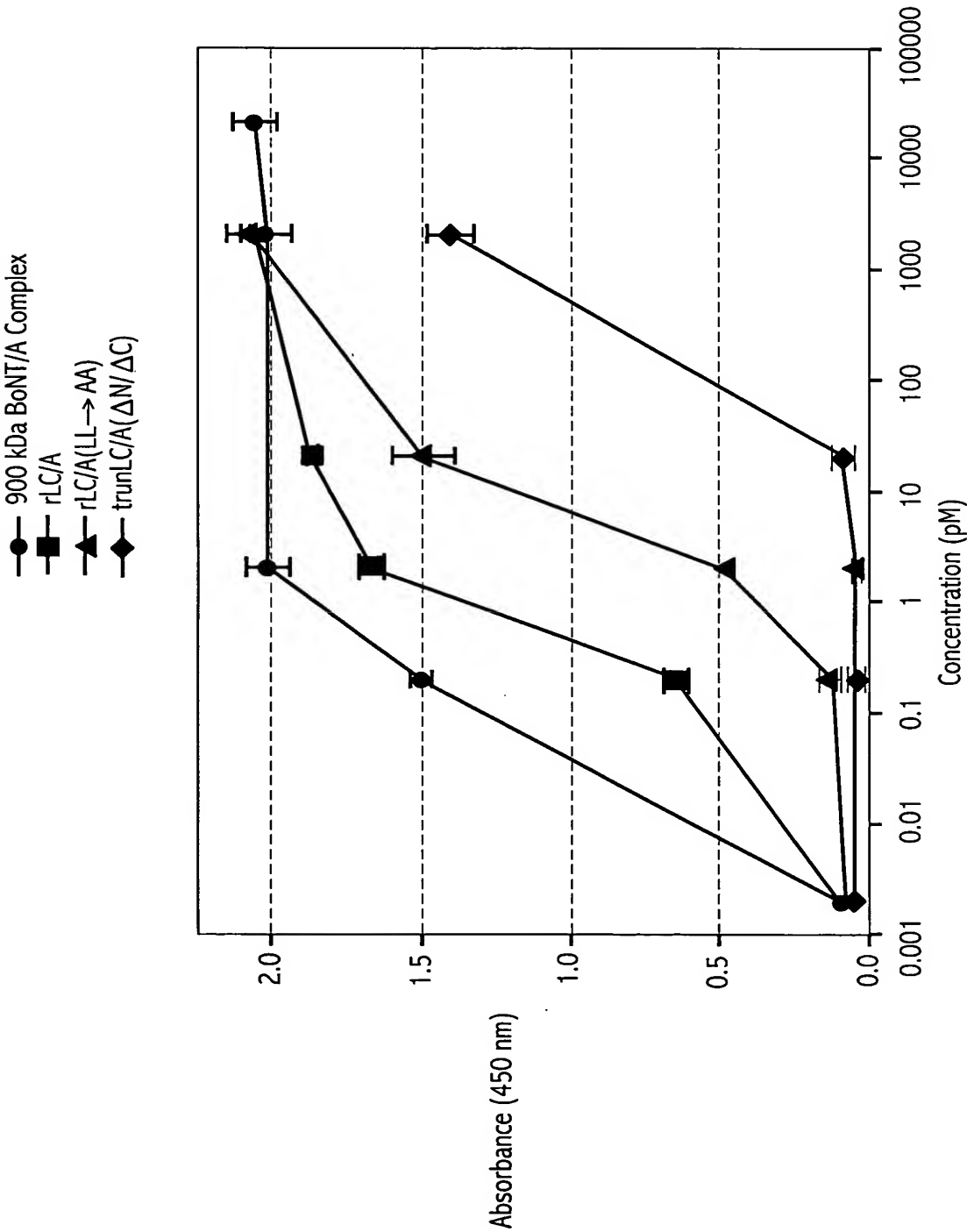


FIG. 15

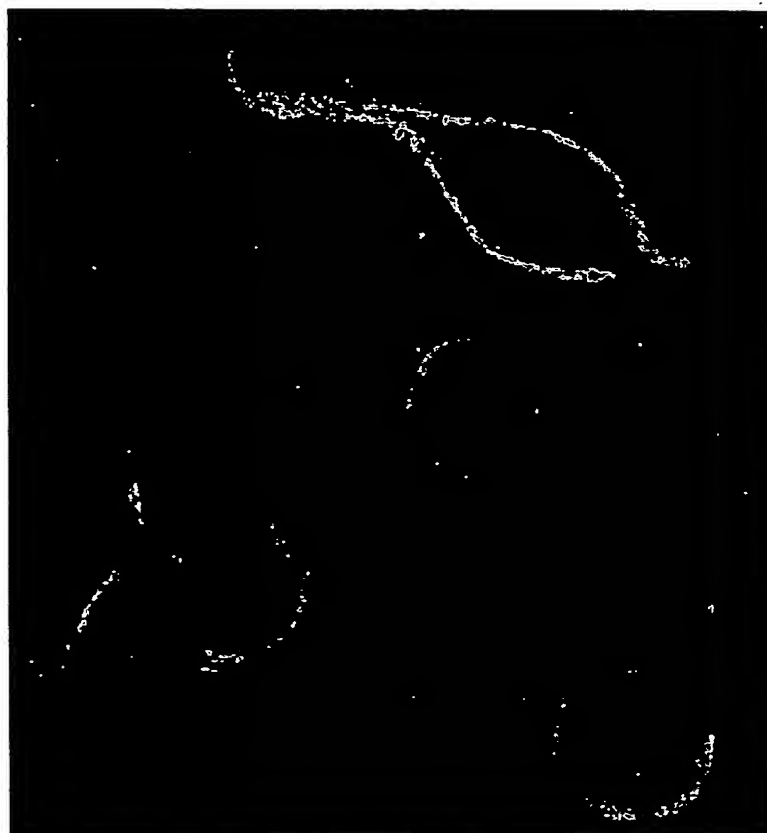
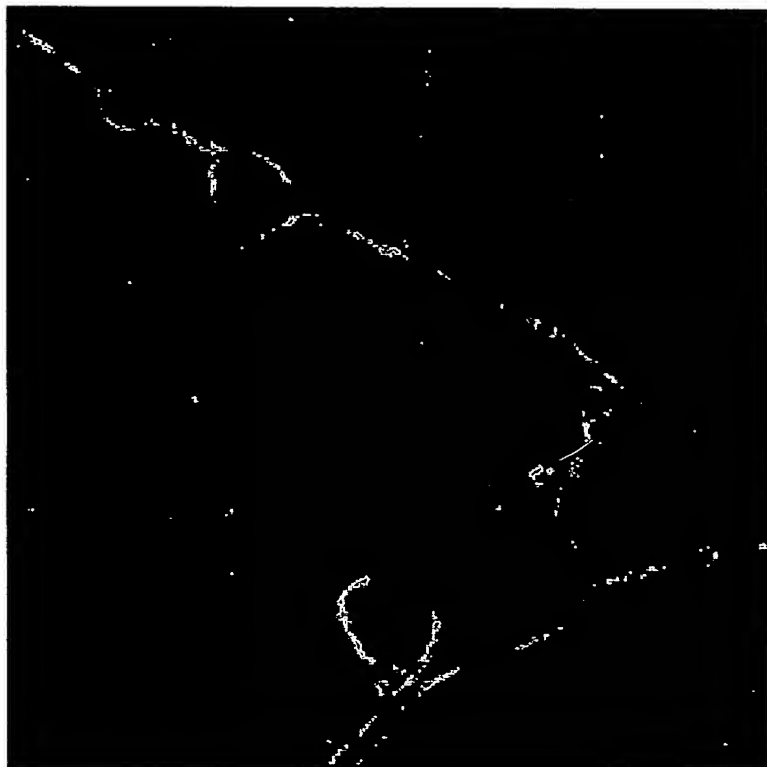


FIG. 16

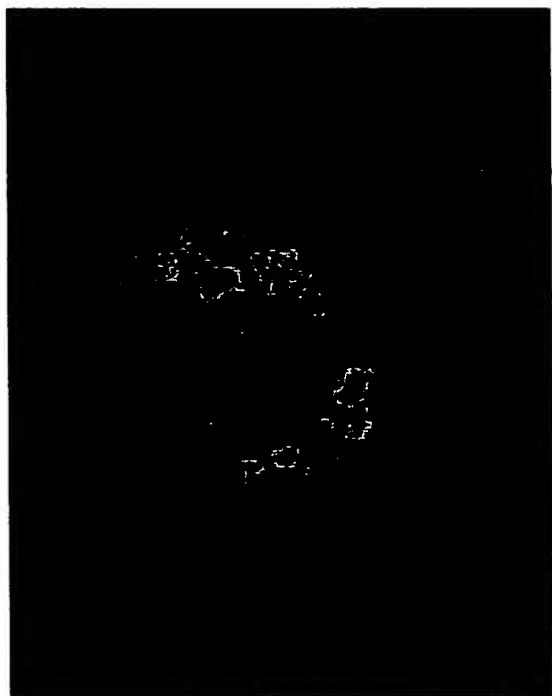
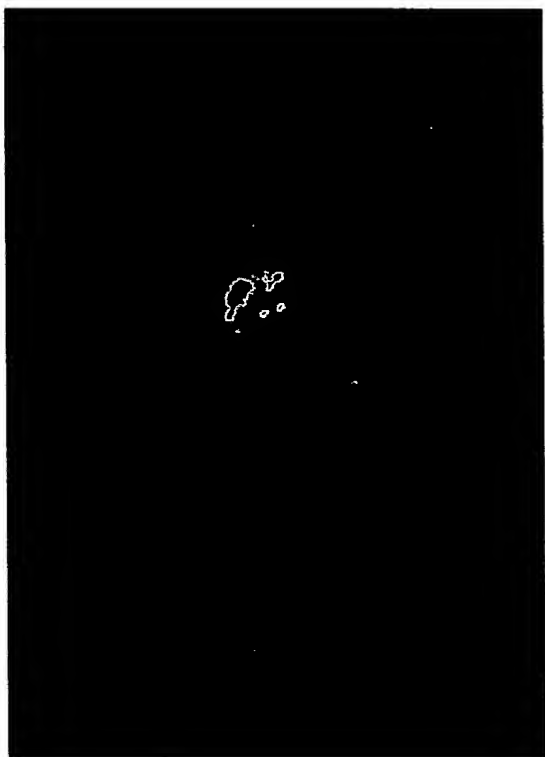


FIG. 17

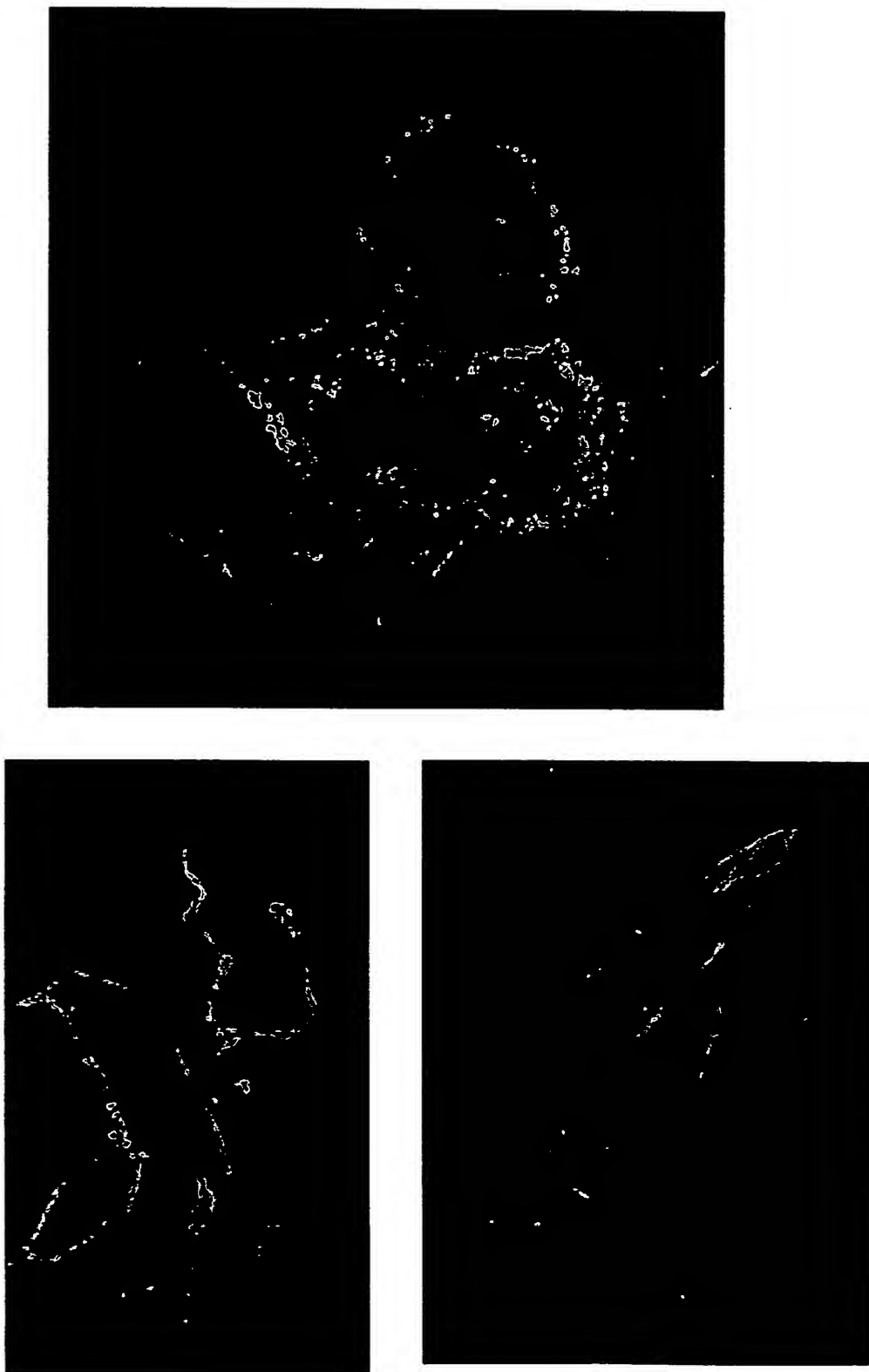
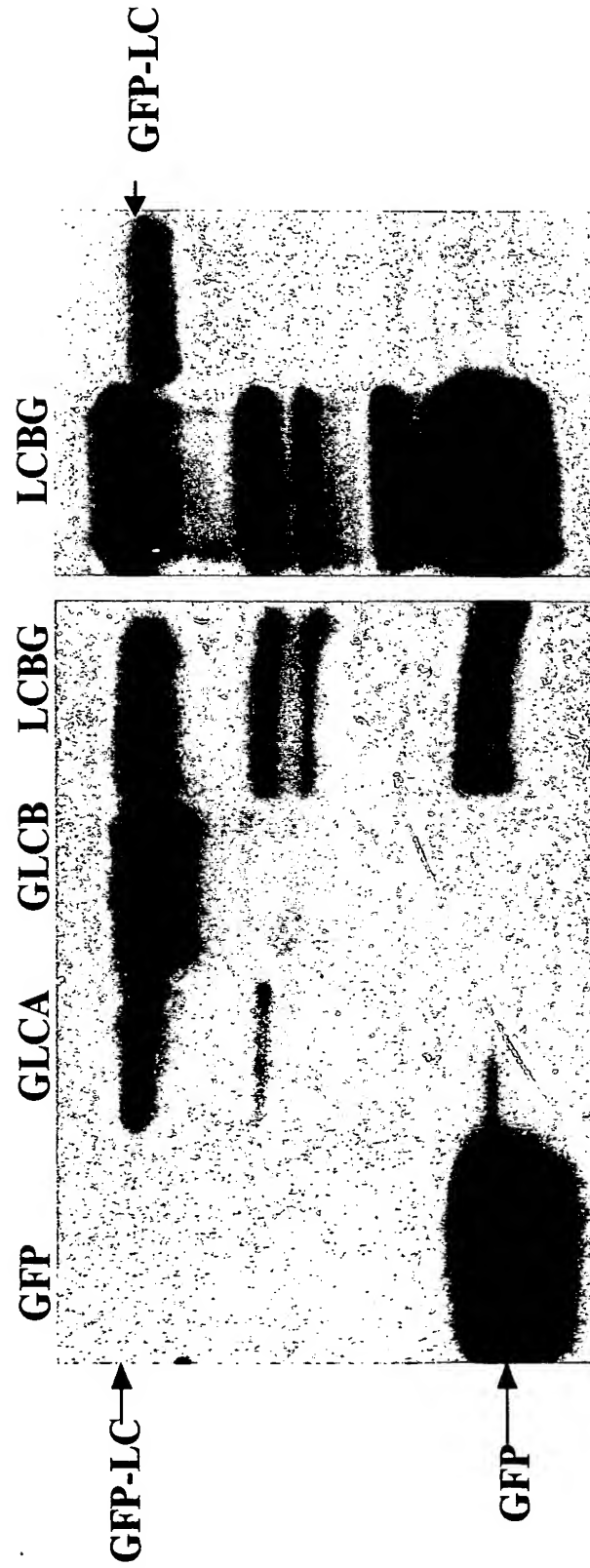
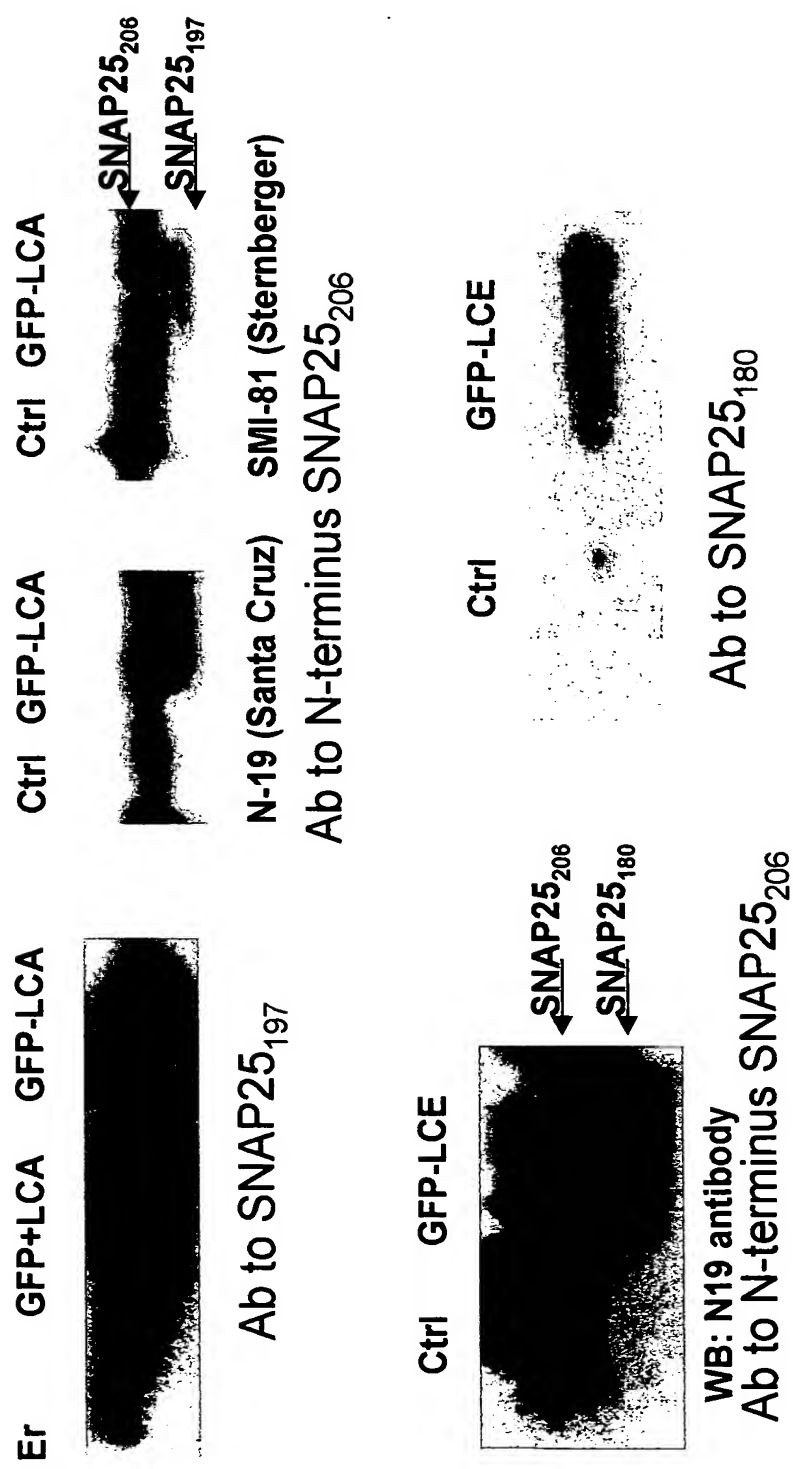


FIG. 18



IP: GFP (3E2) // WB:GFP (PolyAb)

FIG. 19



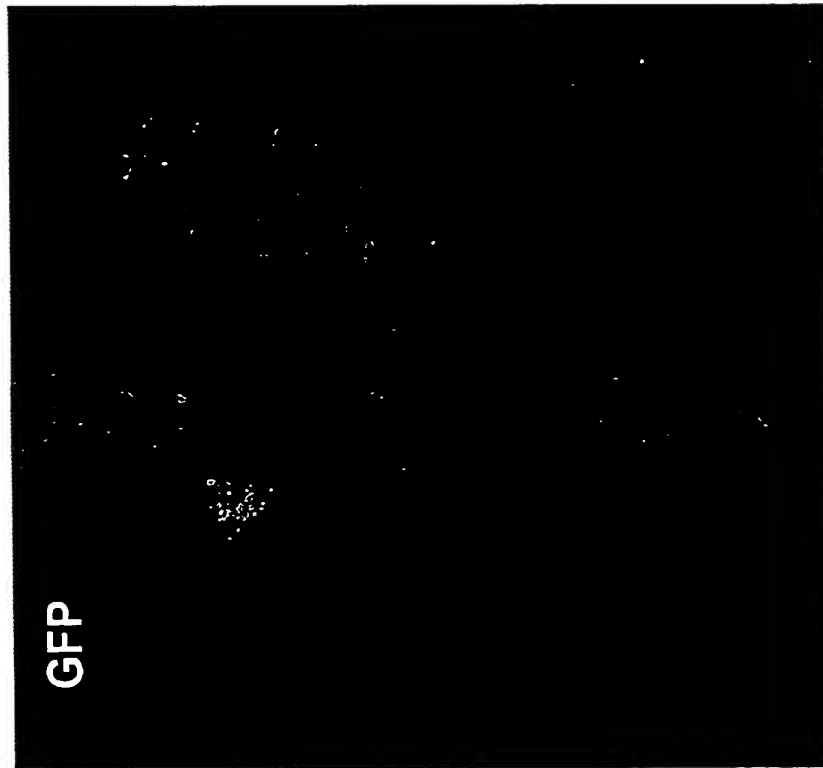
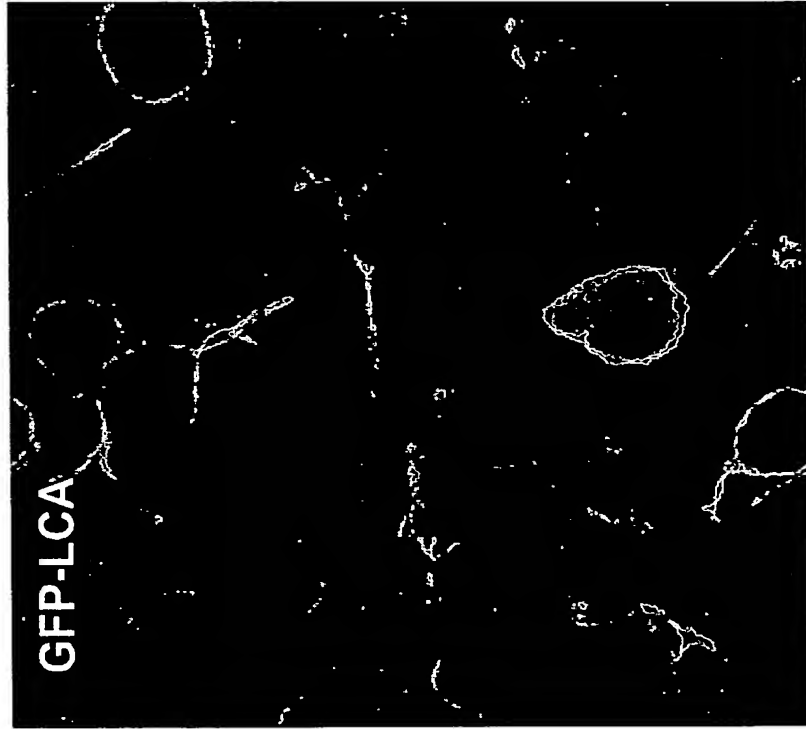


FIG. 21

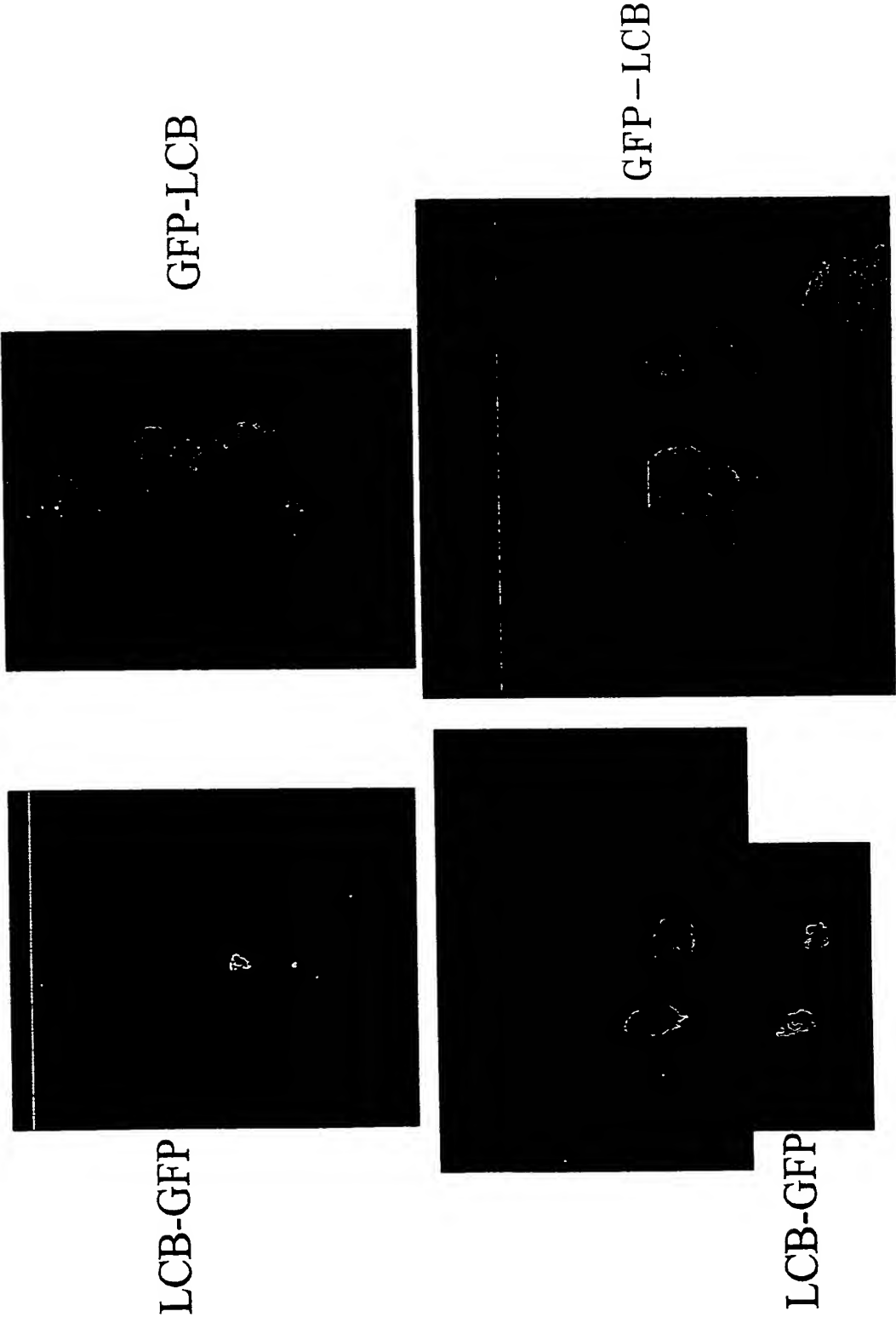


FIG. 22

Confocal

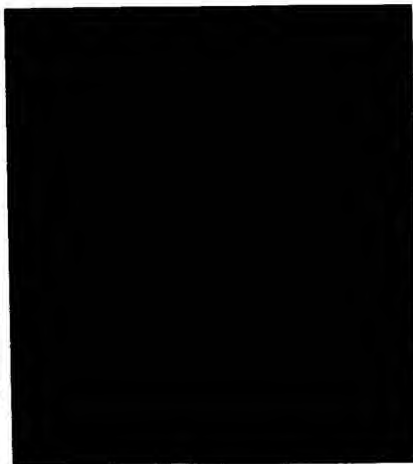
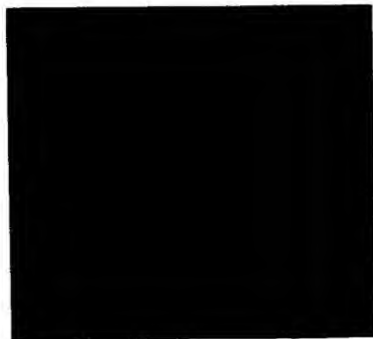
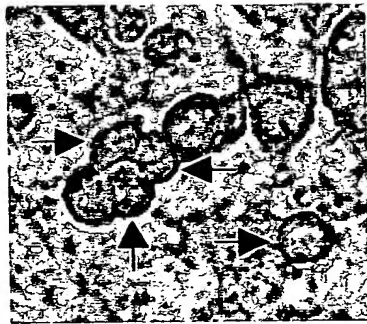
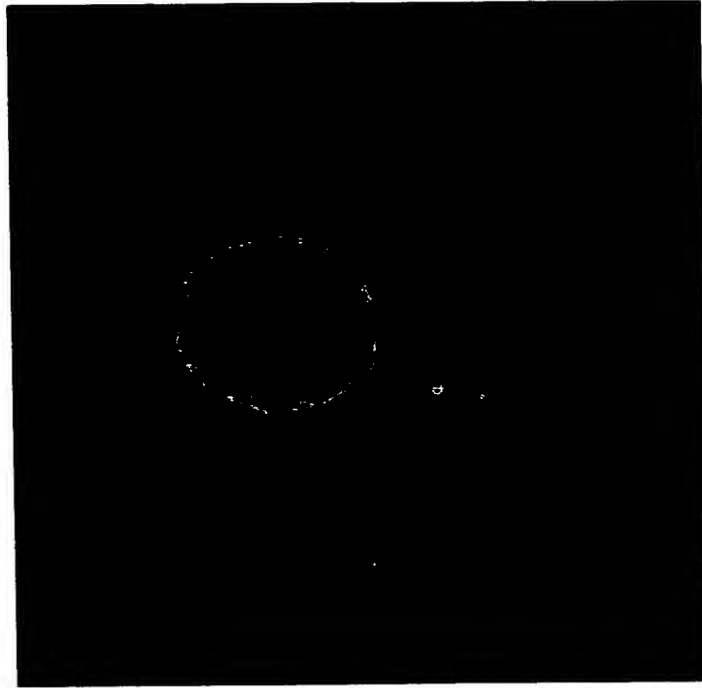
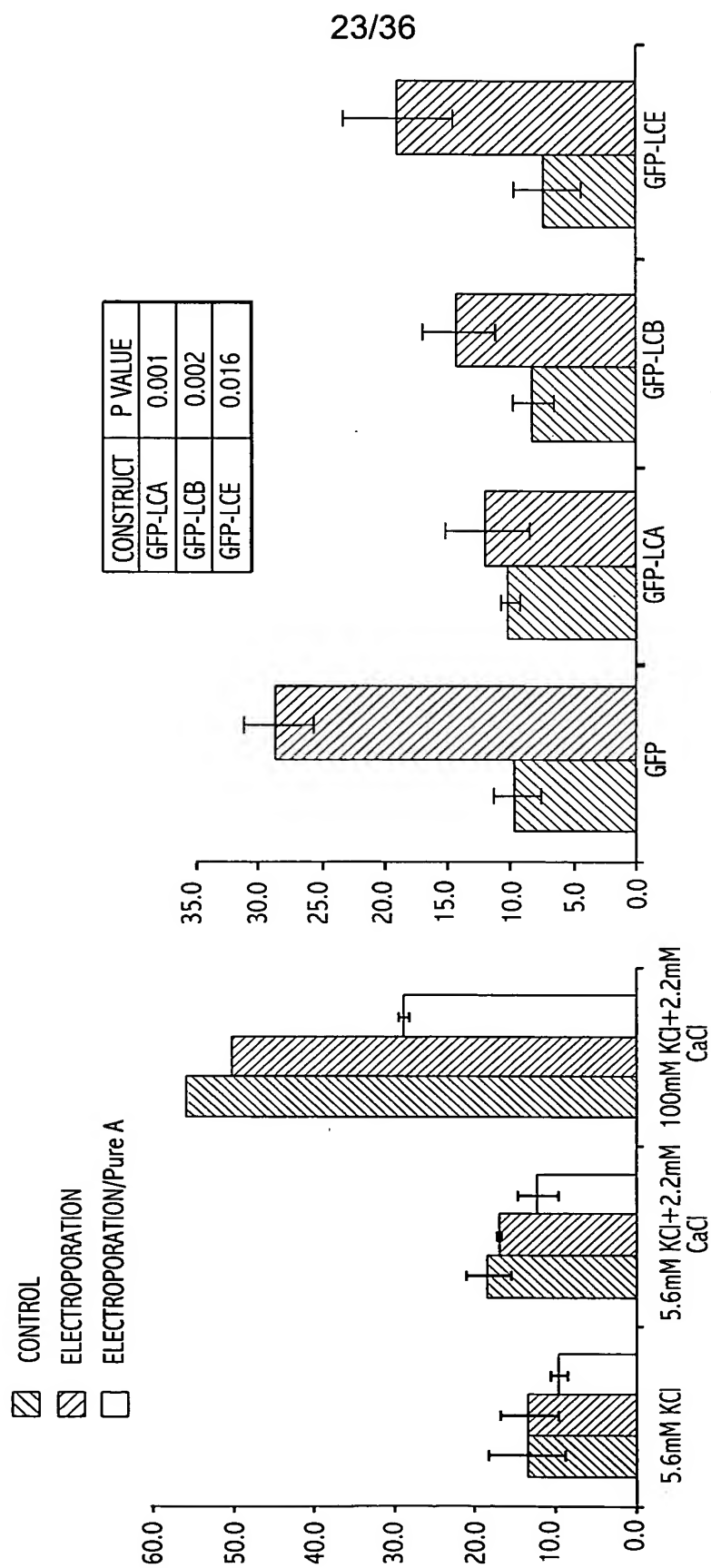
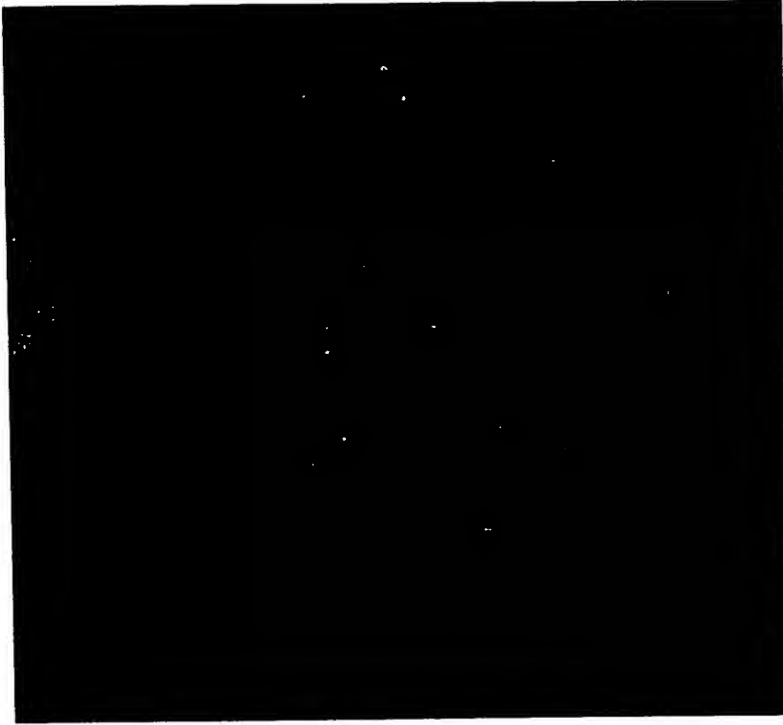
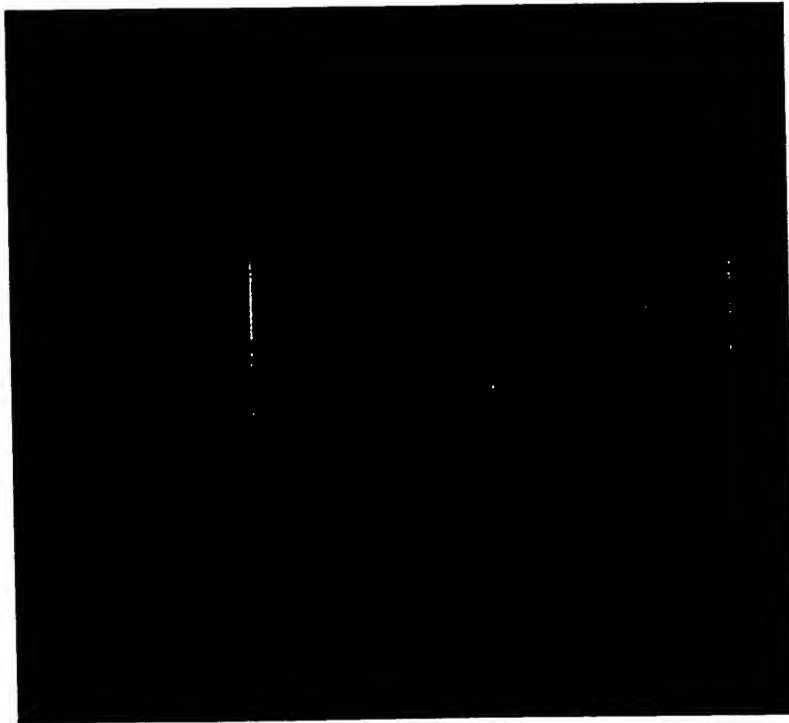


FIG. 23





HEK293T



HeLA

FIG. 25

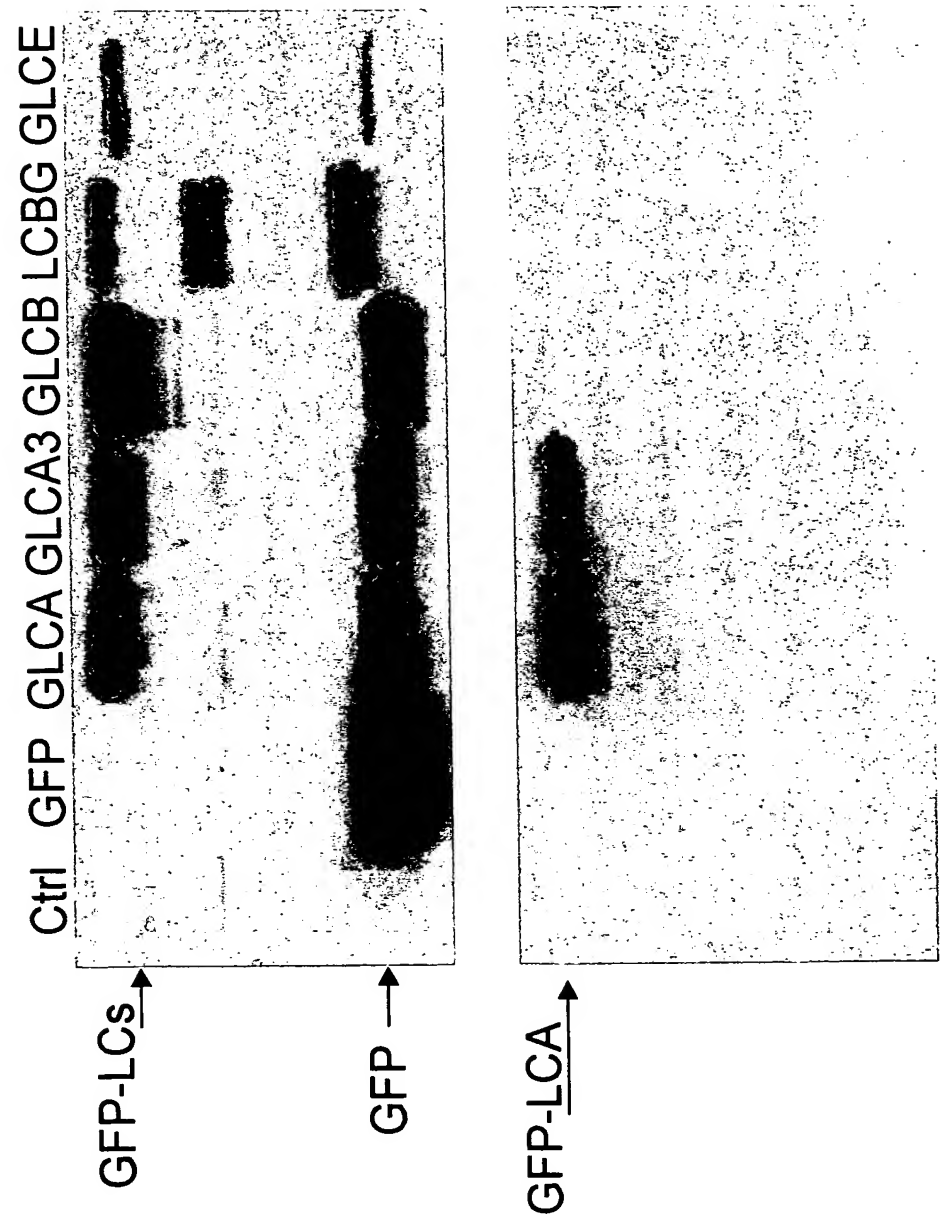
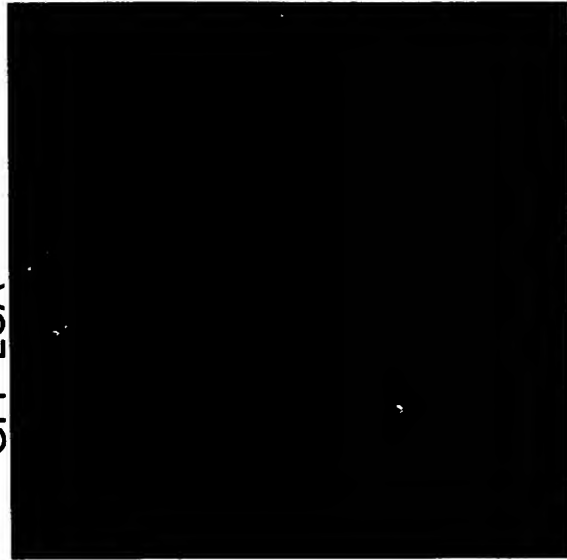


FIG. 26

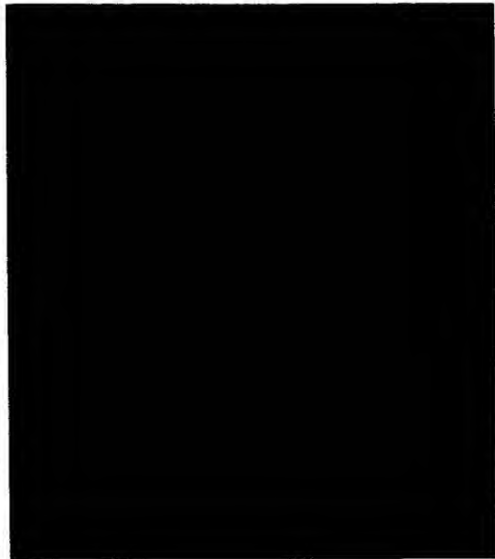
GFP-LCA



GFP-LCE



GFP-LCB



LCB-GFP

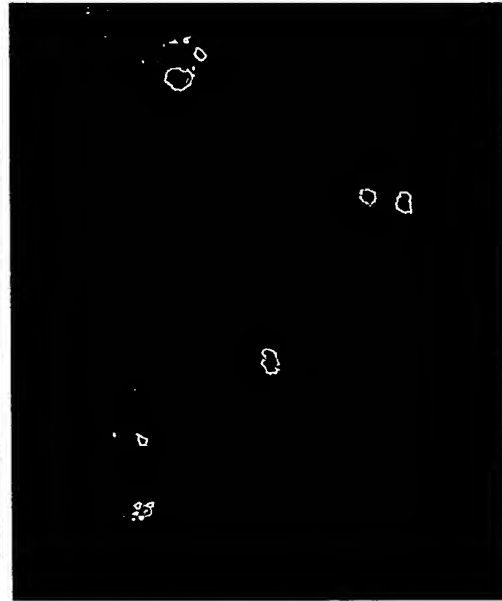


FIG. 27

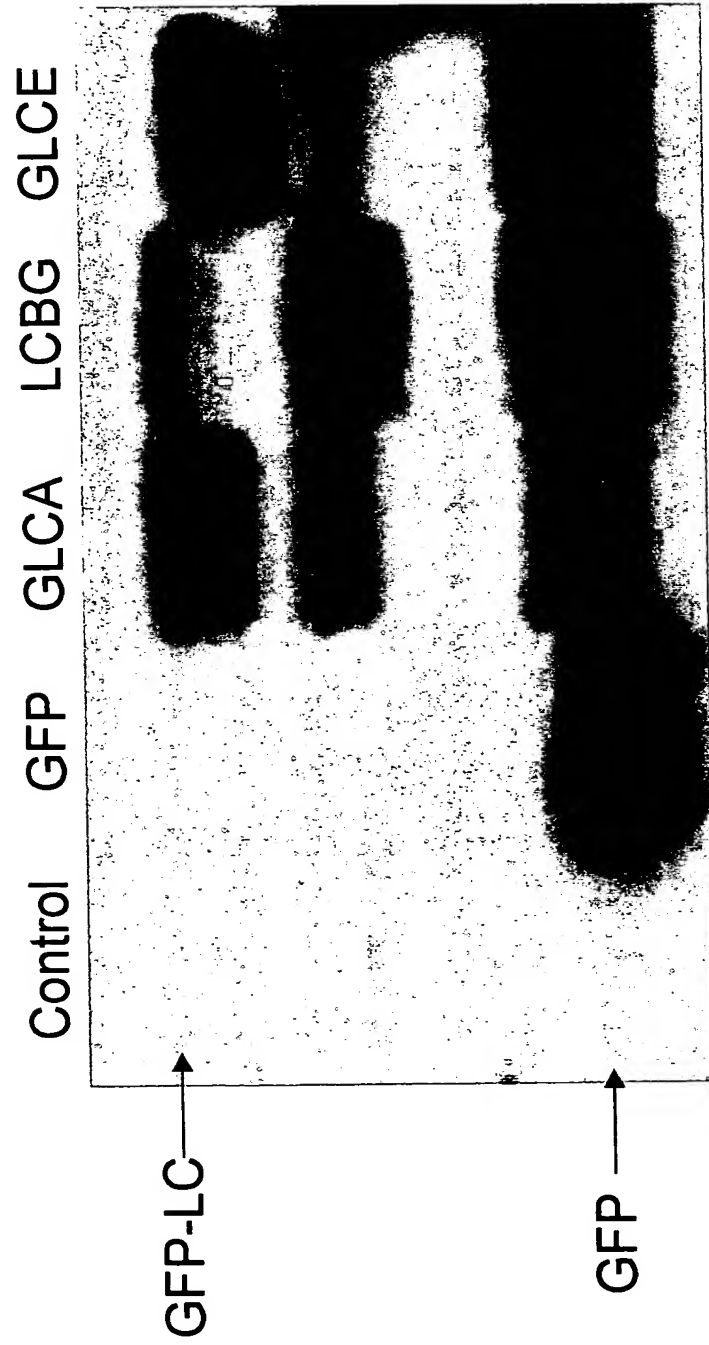


FIG. 28

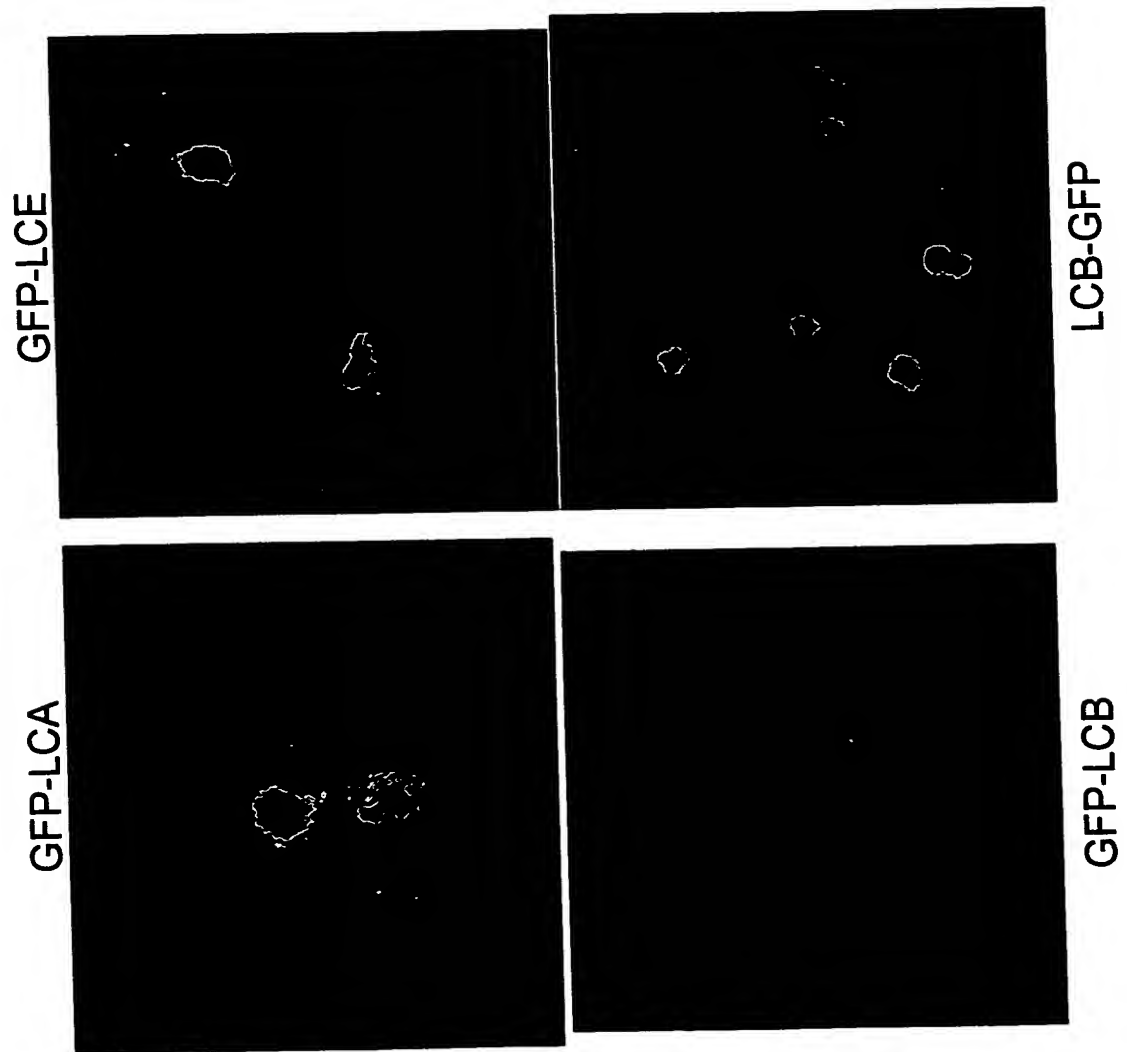


FIG. 29

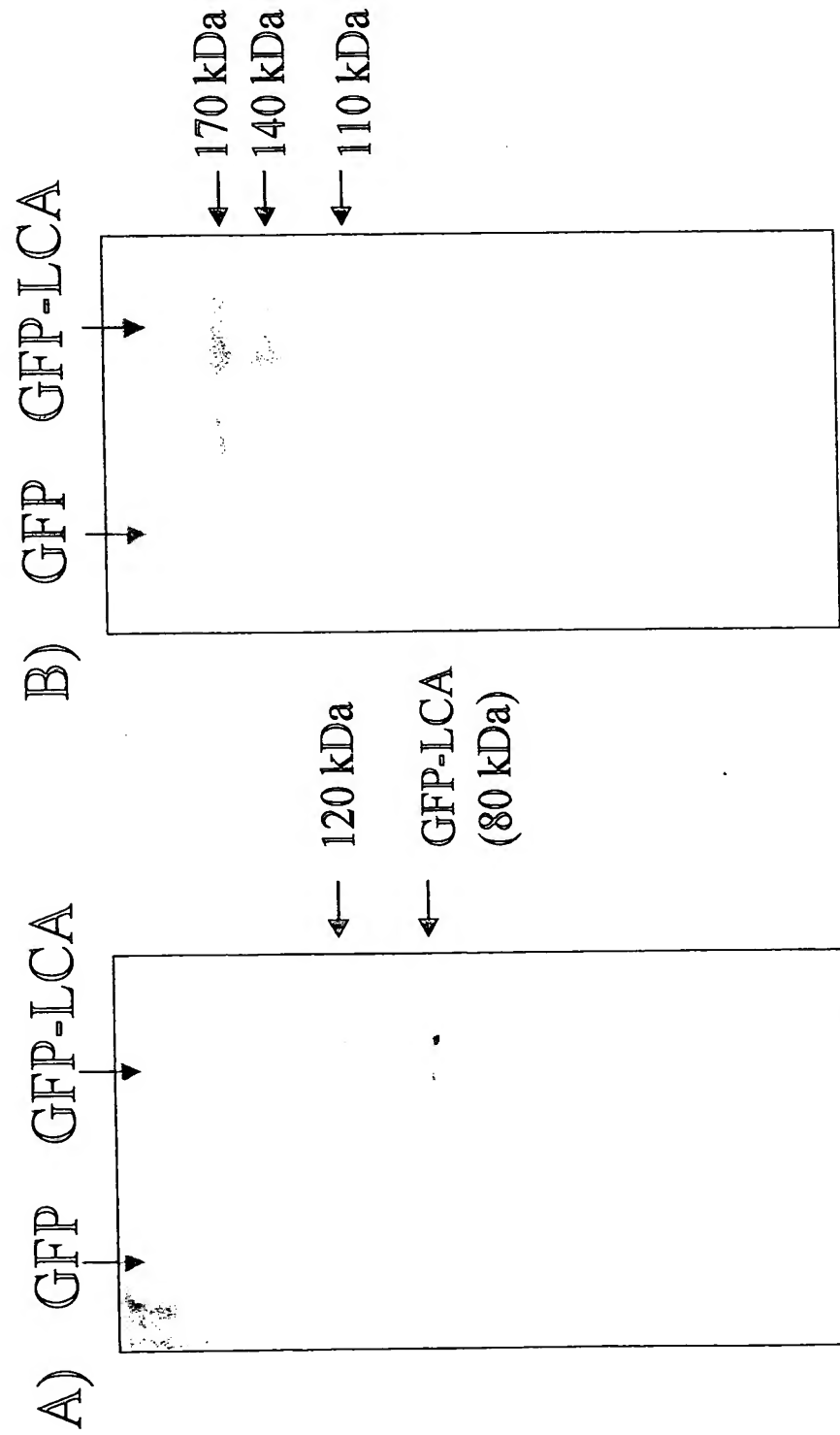


FIG. 30

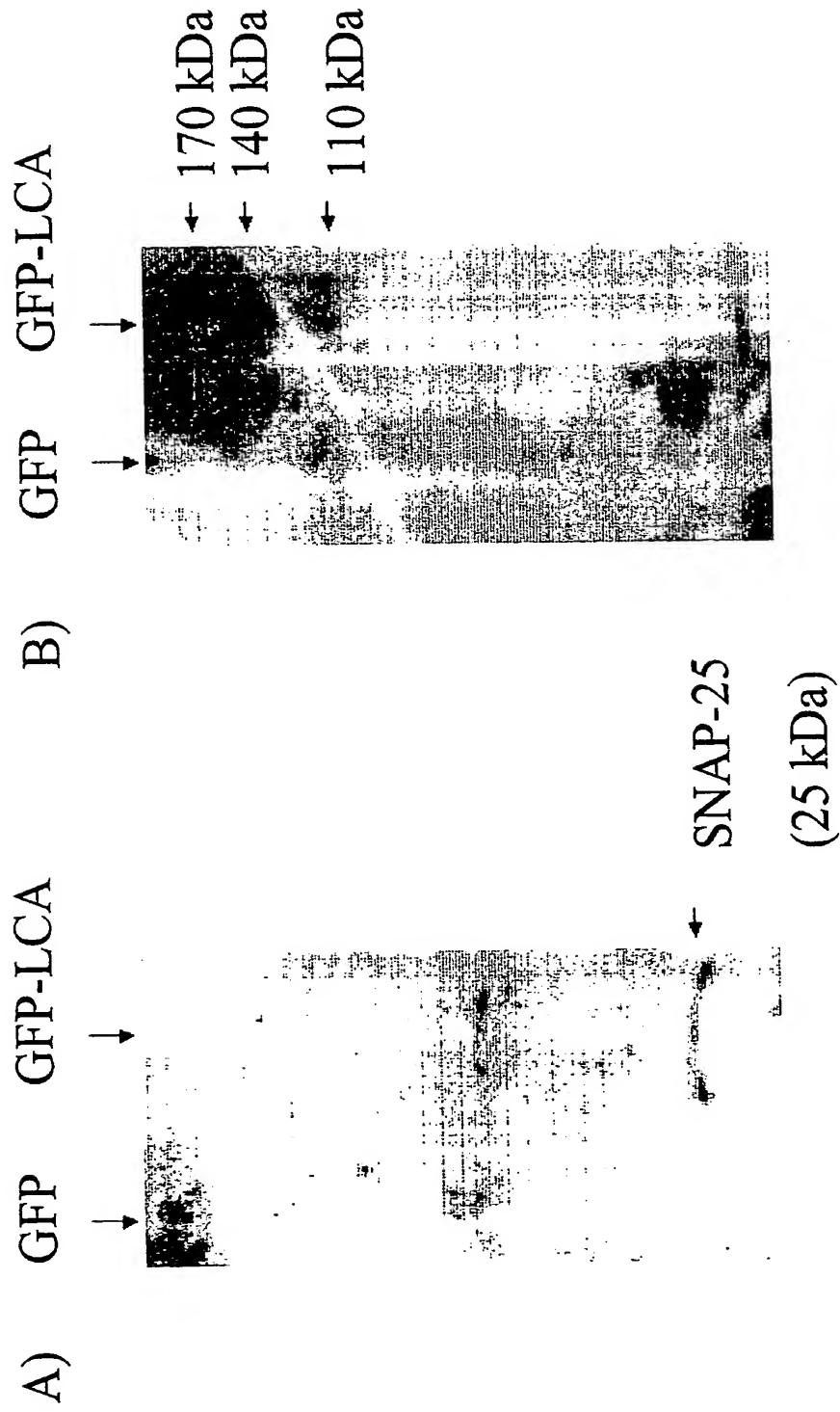
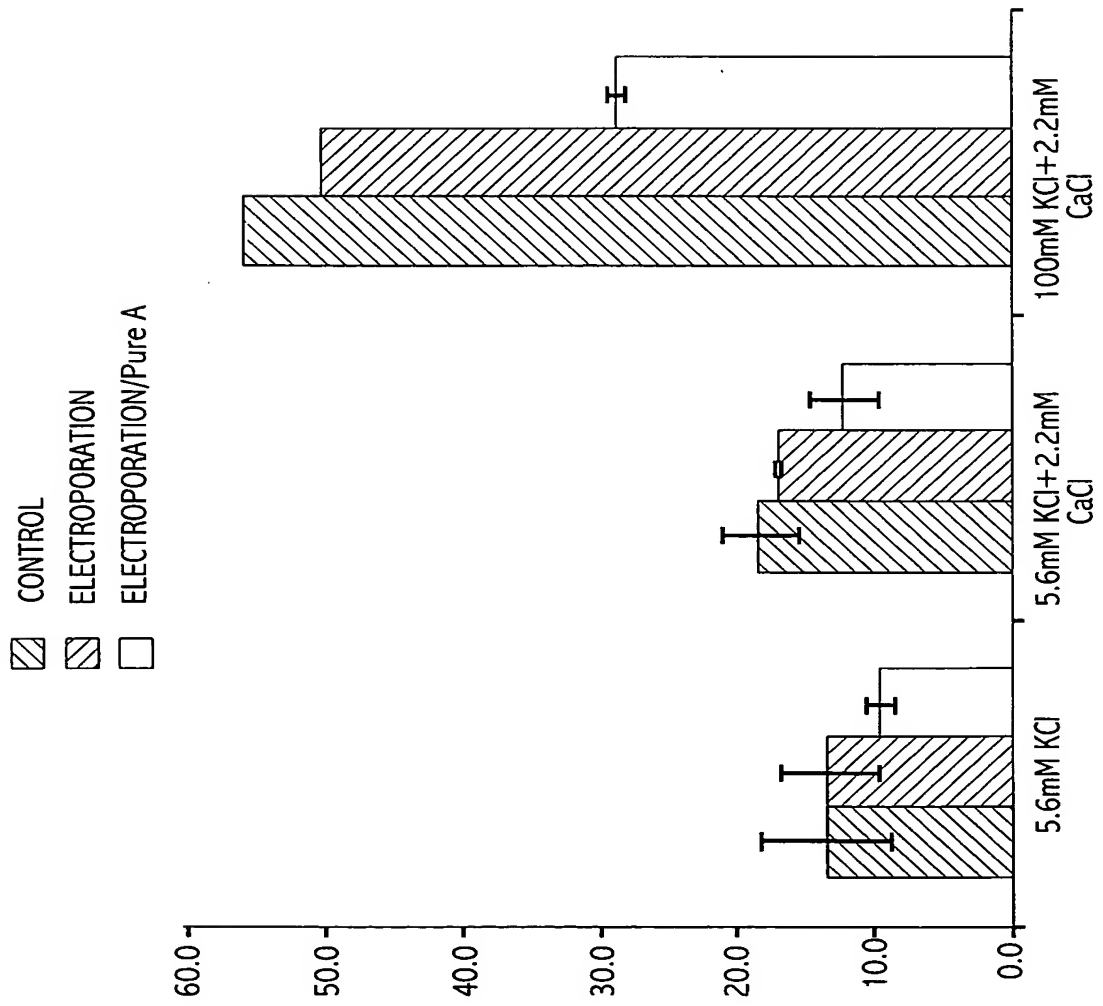


FIG. 31

**FIG. 32**

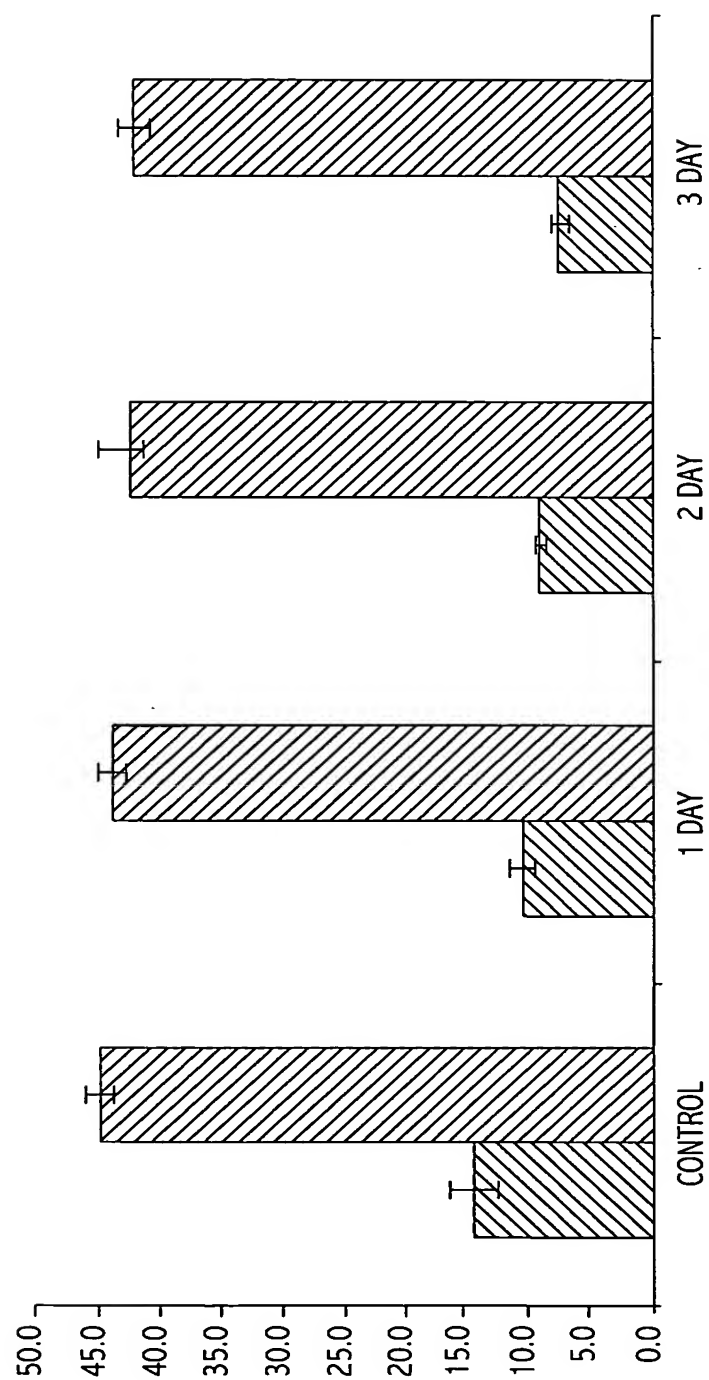
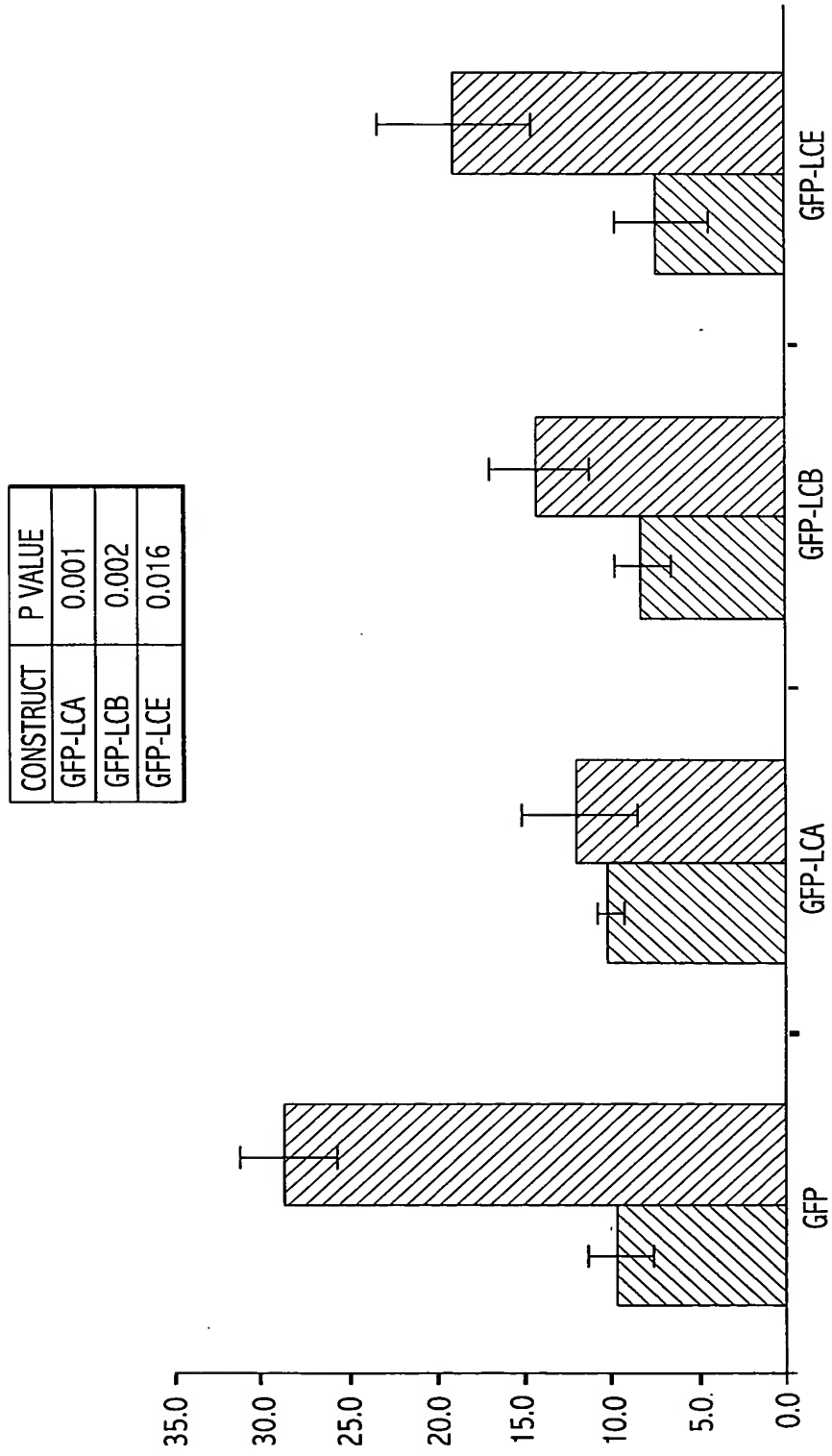
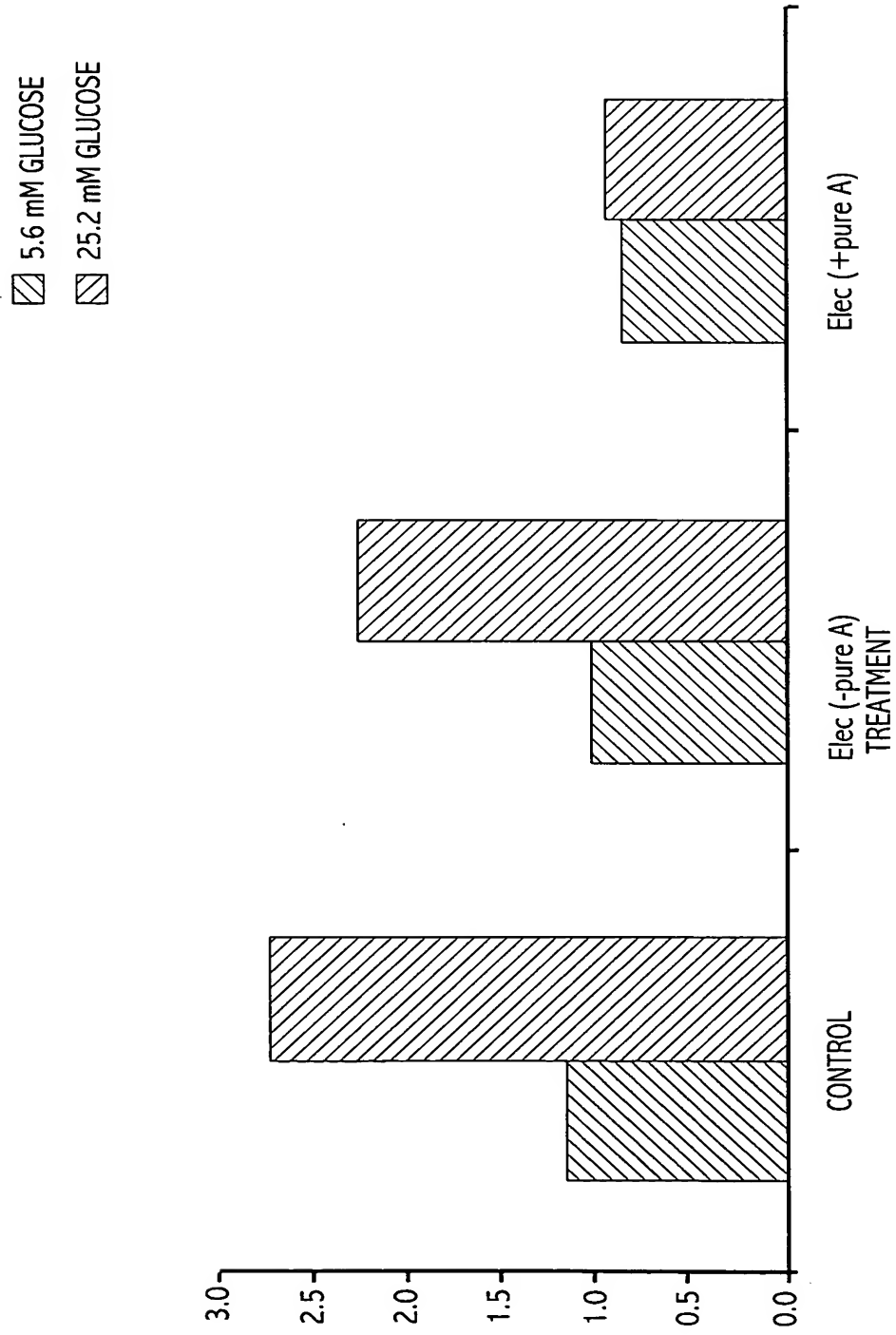


FIG. 33

**FIG. 34**

**FIG. 35**

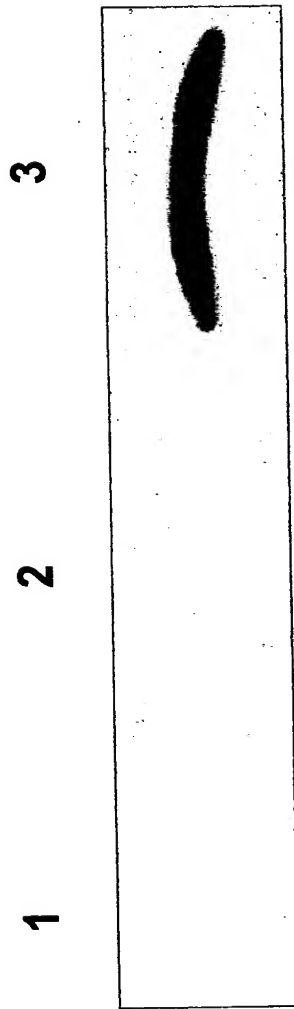
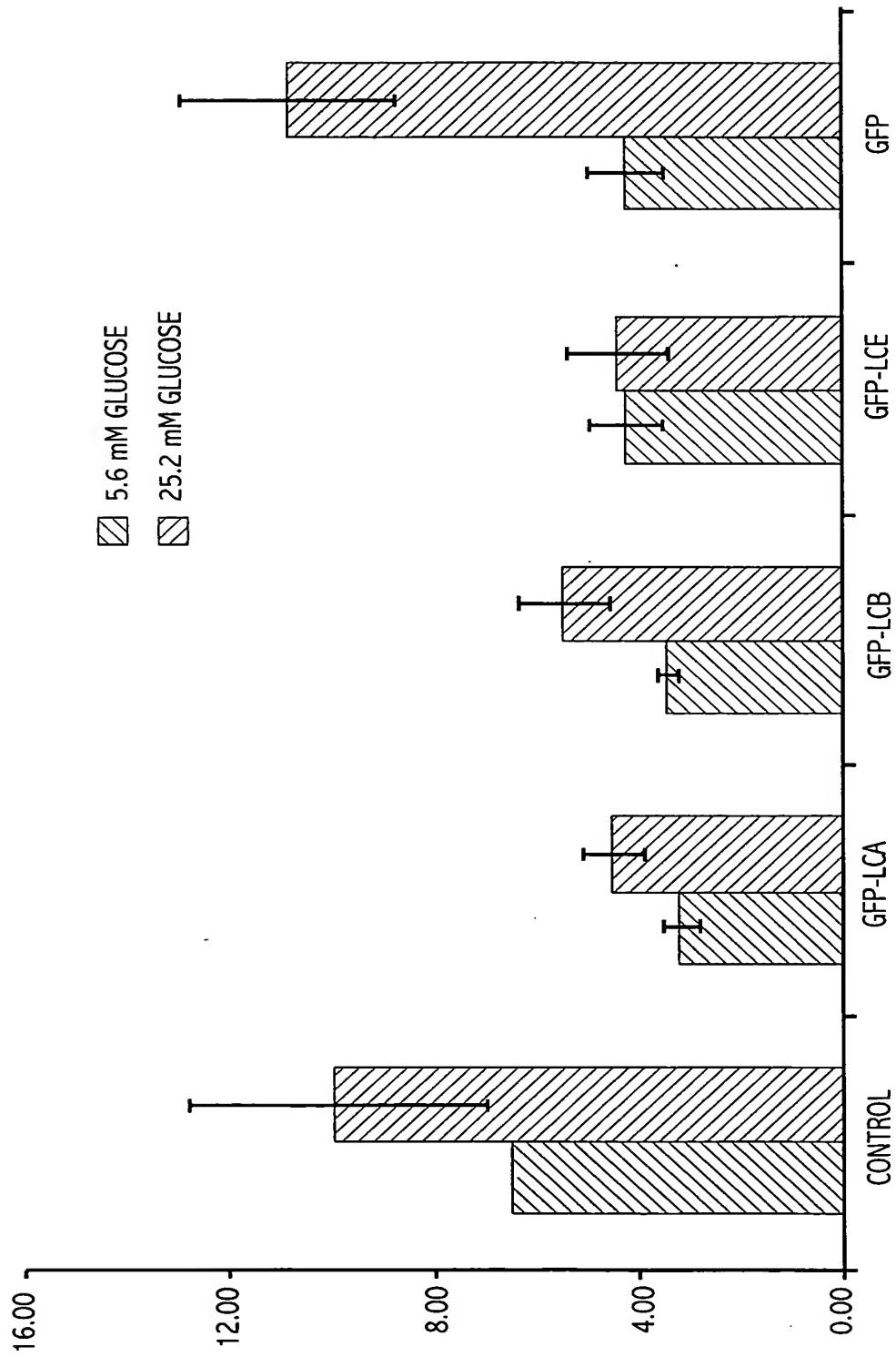


FIG. 36

**FIG. 37**